Product Description

- Zero-cross Switching
- Load Current: 10A, 20A@24-440VAC
- DC Input
- Internal RC Protection Circuit
- Dielectric Strength: 2000Vrms
- RoHS Compliant

Ordering Information

KMGC	380	D	10	-24	(XXX)
KMGC Series	Load Voltage 380:380VAC	Control Mode D: DC Control	Load Current 10:10Amp 20:20Amp	Control Voltage 12:12VDC 24:24VDC	Customized Code

General Specifications

Input Specifications (Ta=25°C)		
Control Voltage Range	12VDC	9.6-14.4VDC
	24VDC	19.2-28.8VDC
Must Turn-on Voltage	12VDC	9.6VDC
	24VDC	19.2VDC
Must Turn-off Voltage		2VDC
Maximum Input Current	12VDC	35mA@14.4VDC
	24VDC	20mA@28.8VDC
Turn-on Delay Time (Typical)		80ms±10ms
Maximum Turn-off Time		10ms

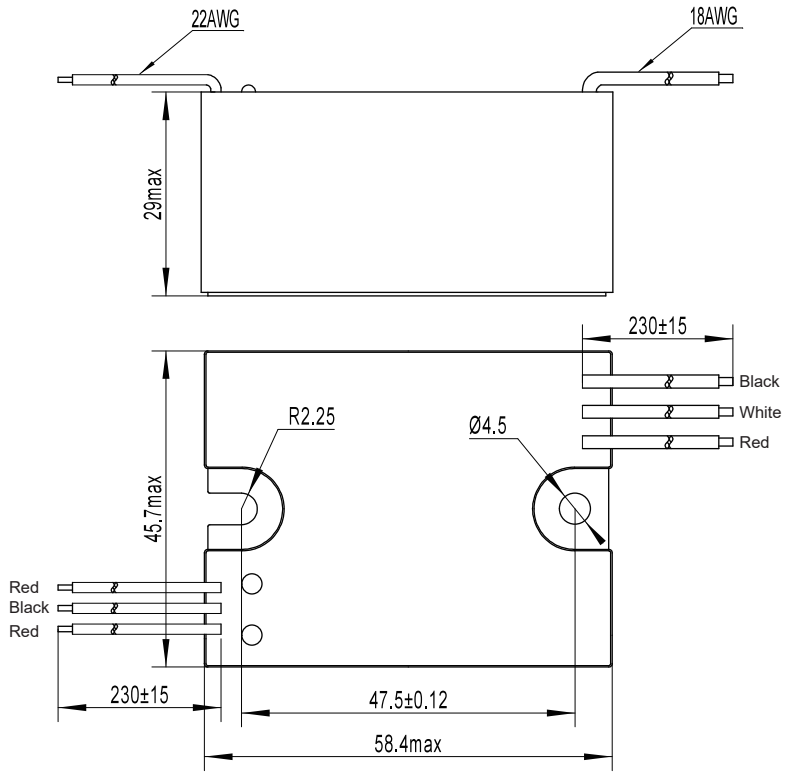
Output Specifications(Ta=25°C)		
Load Voltage Range		24 - 440VAC
Maximum Surge Current (@10ms)	10A	100A
	20A	200A
Maximum I^2t (@10ms)	10A	$50A^2s$
	20A	$200A^2s$
Maximum Transient Overvoltage		800Vpk
Maximum Off-State Leakage Current @Rated Load Voltage		5mA
Maximum On-State Voltage Drop @Rated Current		1.6Vrms
Minimum Off-State dv/dt		200 V/μs

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	2000Vrms
	Input, Output/Base	2500Vrms
Insulation Resistance (@500VDC)		1000MΩ
Ambient Temperature Range		-30℃ ～ +80℃
Storage Temperature Range		-30℃ ～ +100℃
Weight (Typical)		100g

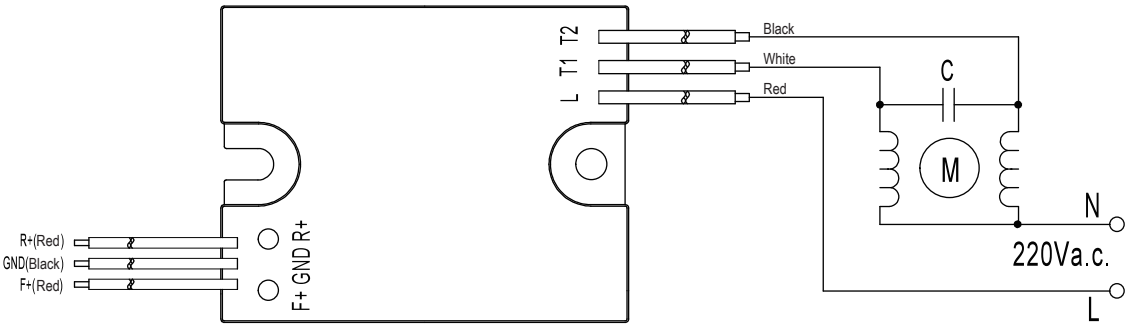
Applications

Single phase motor control.

Outline Dimensions



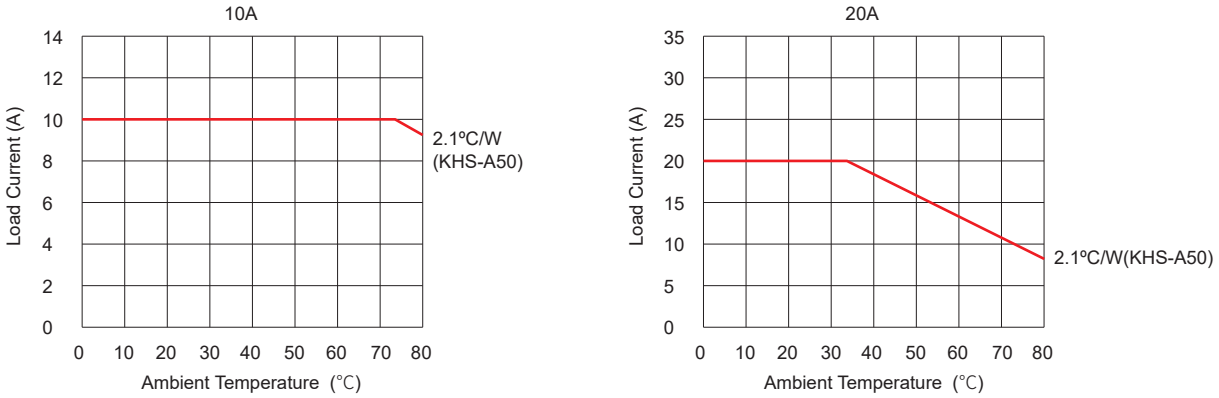
Wiring Diagram



Input wiring:
F+: Connect the positive pole of motor forwarding signal
GND: Connect to the negative pole of Common Terminal
R+: Connect to the positive pole of motor reversing signal

Output wiring:
L: Connect to the live line
T1/T2: Connect to the output terminal of motor
N: Connect to the zero line

Thermal Derating Curve



General Notes

1. When the ambient temperature is too high or the motor reversing modules are installed closely together, the user should consider derating according to the temperature curve.
2. If the connected load will produce a high inrush current, pay attention to the value of whether the motor reversing module can withstand the inrush current.
3. Avoid using this product under strong magnetic field conditions, as strong external magnetic fields will affect the performance of this product such as turning on and off.
4. Reliable grounding needs to be ensured during the use of the product.

! Warnings

1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.